

SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

Product name engine oil TT/N
SDS # 0781 319 84..
Product Use Automotive engine crankcase lubricant
For specific application advice see appropriate Technical Data Sheet or consult your BOT representative.
Supplier ANDREAS STIHL AG u. Co.KG Product management: Forestry Accessories
Badstr. 115 Tel. 07151-26-3237
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**EMERGENCY TELEPHONE
NUMBER**

2. Composition/information on ingredients

Highly refined mineral oil (IP 346 DMSO extract < 3%). Proprietary performance additives.
This product does not contain any hazardous ingredients at or above regulated thresholds.

3. Hazards identification

This preparation is not classified as dangerous according to Directive 1999/45/EC as amended and adapted.

Physical/chemical Hazards Not classified as dangerous.
Human health hazards Not classified as dangerous.
Environmental hazards Unlikely to be harmful to aquatic organisms.

Effects and symptoms

Eyes No significant health hazards identified.
Skin No significant health hazards identified.

USED ENGINE OILS

Used engine oil may contain hazardous components which have the potential to cause skin cancer.
See Toxicological Information, section 11 of this Safety Data Sheet.

Inhalation No significant health hazards identified.
Ingestion No significant health hazards identified.

4. First-aid measures

Eye Contact In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.
Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.

5. Fire-fighting measures

Extinguishing Media

Suitable In case of fire, use water fog, foam, dry chemical or CO2 extinguisher or spray.
Not Suitable Do not use water jet.

Unusual fire/explosion Hazards None.

Special fire-fighting procedures None identified.

Protection of fire-fighters Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Personal Precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
Environmental precautions and cleanup methods	If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves.

7. Handling and storage

Handling	Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure controls/personal protection

Occupational Exposure Limits	None assigned.
Control Measures	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
Hygiene measures	Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
Personal protective equipment	
Respiratory system	None required; however, use of adequate ventilation is good industrial practice.
Skin and body	None required; however, use of protective clothing is good industrial practice.
Hands	None required; however, use of gloves is good industrial practice.
Eyes	Safety glasses with side shields.

9. Physical and chemical properties

Autoignition temperature	>230 °C
Flash point	266 °C (CLOSED CUP)
Explosion Limits	LOWER: 0.6 % UPPER: 6.5 %
Pour Point	-27 °C
Colour	Red.
Odour	Slight.
Physical state	Liquid.
Boiling point / range	>300 °C
Density	0.88 g/cm ³ at 20 °C
Solubility	insoluble in water.
Viscosity	kinematic at 40°C: 113.9 cSt kinematic: 12.5 cSt at 100°C

10. Stability and reactivity

Incompatibility with Various Substances	Reactive with oxidizing agents.
Hazardous Polymerization	Will not occur.

11. Toxicological information

Acute toxicity	Unlikely to cause more than transient stinging or redness if accidental eye contact occurs. Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis. USED ENGINE OILS Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin
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cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

Chronic toxicity

Carcinogenic effects

No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC) or the European Commission (EC).

12. Ecological information

Persistence/degradability	Inherently biodegradable
Mobility	Spillages may penetrate the soil causing ground water contamination.
Bioaccumulative potential	This product is not expected to bioaccumulate through food chains in the environment.
Environmental hazards	Unlikely to be harmful to aquatic organisms.
Other Ecological Information	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13. Disposal considerations

Disposal Consideration / Waste information	Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations. Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.
Used/contaminated product	
European Waste Catalogue (EWC)	13 02 05 However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

14. Transport information

Not classified as hazardous for transport (ADR, RID, UN , IMO, IATA/ICAO).

15. Regulatory information

Label Requirements

Risk Phrases	This product is not classified according to the EU regulations.
Restrictions to product use	Classification and labeling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted. - Industrial applications.

Other Regulations

Inventories	AUSTRALIAN INVENTORY (AICS): In compliance CANADA INVENTORY (DSL): In compliance. CHINA INVENTORY (IECS): Not determined. EC INVENTORY (EINECS): In compliance. JAPAN INVENTORY (ENCS): Not listed. KOREA INVENTORY (ECL): Not determined. PHILIPPINE INVENTORY (PICCS): In compliance. US INVENTORY (TSCA): Not determined.
Ordinance on Combustible Liquids (VbF)	No danger class.
Technical instruction on air quality control	Contains substances of Class III
Hazard class for water (WGK)	2 (wassergefährdend), classified according to VwVwS.
English translation of StörfallV	German hazardous incident ordinance (12.BImSchV - StörfallV): not listed

16. Other information

HISTORY

Date of issue 28/08/2002.
Date of previous issue 27/08/2002.

Notice to Reader

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken

Further copies of this Safety Data Sheet may be obtained from Castrol International.

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